

Organization Applicant

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Street : 332 North Lauderdale Avenue  
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State : TN  
Country : USA  
PostalCode : 38105  
PhoneNumber : 901-495-2342  
FaxNumber : 901-495-3148  
EmailAddress : Scott.Elmer@stjude.org  
<110> OrganizationName : St. Jude Children's Research Hospital

Organization Applicant

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Street : 332 North Lauderdale Avenue  
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EmailAddress : shawn.hawkins@stjude.org  
<110> OrganizationName : St. Jude Children's Research Hospital

Individual Applicant

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PhoneNumber : 901-495-2255  
FaxNumber : 901-495-2270  
EmailAddress : thomas.curran@stjude.org  
<110> LastName : Curran  
<110> FirstName : Thomas  
<110> MiddleInitial :  
<110> Suffix :

Individual Applicant

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Street : 332 North Lauderdale Avenue  
City : Memphis  
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PostalCode : 38105  
PhoneNumber : 901-495-4801  
FaxNumber : 901-495-2270  
EmailAddress : lakhu.keshvara@stjude.org  
<110> LastName : Keshvara  
<110> FirstName : Lakhu  
<110> MiddleInitial :  
<110> Suffix :

Application Project

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<120> Title : Cyclin Dependent Kinase 5 Phosphorylation of Disabled 1 Protein

<130> AppFileReference : SJ-01-0032  
<140> CurrentAppNumber : 10/078,927  
<141> CurrentFilingDate : 2002-02-19

#### Sequence

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<213> OrganismName : Mus musculus  
<400> PreSequenceString :  
QSSPSK  
<212> Type : PRT  
<211> Length : 6  
SequenceName : Seq ID#1  
SequenceDescription :

6

#### Feature

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Sequence: Seq ID#1:  
<221> FeatureKey : SITE  
<222> LocationFrom : 3  
<222> LocationTo : 3  
Other Information : Serine at residue #3 equates to Serine491 in mouse  
Dab1 sequence  
Cdk5 phosphorylation of Serine requires a Proline (P) in the +1 position and a  
Lysine (K) in the +3 position  
CDSJoin : No

#### Feature

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Sequence: Seq ID#1:  
<221> FeatureKey : DOMAIN  
<222> LocationFrom : 1  
<222> LocationTo : 6  
Other Information : smallest carboxy terminal Dab1 tryptic fragment  
containing a Cdk5 phosphorylation site  
CDSJoin : No

#### Sequence

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<213> OrganismName : Mus musculus  
<400> PreSequenceString :  
SSASHVSDPT ADDIFEEGFE SPSK  
<212> Type : PRT  
<211> Length : 24  
SequenceName : Seq ID#2  
SequenceDescription :

24

#### Feature

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Sequence: Seq ID#2:  
<221> FeatureKey : SITE  
<222> LocationFrom : 21  
<222> LocationTo : 21  
Other Information : Serine at Reisdue 21 equates to Serine515 in mouse  
Dab1 sequence  
Cdk5 phosphorylation of Serine requires a Proline (P) in the +1 position and a  
Lysine (K) in the +3 position  
CDSJoin : No

#### Feature

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Sequence: Seq ID#2:

<221> FeatureKey : DOMAIN

<222> LocationFrom : 1

<222> LocationTo : 24

Other Information : Dab1 tryptic fragment containing a Cdk5 phosphorylation site

CDSJoin : No

#### Sequence

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<213> OrganismName : Mus musculus

<400> PreSequenceString :

TPAPRQSSPS KSSA

14

<212> Type : PRT

<211> Length : 14

SequenceName : Seq ID#3

SequenceDescription :

#### Feature

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Sequence: Seq ID#3:

<221> FeatureKey : MOD\_RES

<222> LocationFrom : 8

<222> LocationTo : 8

Other Information : PHOSPHORYLATION, equates to Serine491 in mouse Dab1 sequence

Cdk5 phosphorylation of Serine requires a Proline (P) in the +1 position and a Lysine (K) in the +3 position

CDSJoin : No

#### Feature

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Sequence: Seq ID#3:

<221> FeatureKey : DOMAIN

<222> LocationFrom : 1

<222> LocationTo : 14

Other Information : Dab1 phosphopeptide domain used for antibody production

CDSJoin : No